

MECHANIC STUDY GUIDE

Unitized Body Structural Repair

Michigan Motor Vehicle Mechanic

Listed below are a number of items and subjects which make up the mechanic certification tests identified above. An individual's ability to pass the certification test will depend upon the amount of knowledge the person has concerning these items:

Steels (Characteristics & Identification) - 12%

UHSS (Ultra High Strength Steel)

HSS (High Strength Steel)

Tensile strength

Identification of various steels

Pulling (Straightening) - 8%

Overpulling

How to minimize tearing

Anchoring

Welding - 20%

MIG

Oxyacetylene

Brazing

Shielding gas

Weld quality

Electrode wire use

Precautions

Types of welds

Types of welders

Repairing Structural Components - 25%

A-pillars & B-pillars

Location of welds

Sectioning

Joints to use

Corrosion protection

Weld-through primers

Glass installation

Measuring/Damage Analysis - 21%

Point to point

Indirect damage

Direct damage

Secondary damage

Primary damage

Datum plane

Asymmetrical dimensions

Vehicle centerline

Centering gauges

Loaded measurement

Unitized Body General Understanding - 14%

Crush zones

Design features which initiate the crush process

Space frame construction

Manufactures' tolerances

One-time fasteners

SAMPLE QUESTION:

Two-part epoxy primers:

- A. Provide corrosion protection close to OEM E-coat.
- B. Have an indefinite pot life.
- C. Should be used on structural parts only if a lacquer primer surfacer is not available.
- D. All of the above.

ANSWER: A